

Fair Radio Sales Co.

2395 St Johns RD - PO BOX 1105 - LIMA, OHIO 45802



PSRST STD
U.S. POSTAGE
PAID
STEVENS POINT, WI
PERMIT NO. 193

ADDRESS CORRECTION REQUESTED

FALL 2003 CATALOG SUPPLEMENT

WEB: www.fairradio.com
EMAIL: fairradio@fairradio.com

PHONES: 419-227-6573 OR 223-2196
24 HR FAX: 419-227-1313

STORE HOURS: M-F 9-5:30

ALLOW FOR SHIPPING CHARGES!

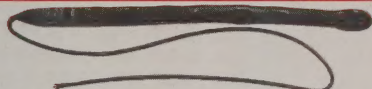
INCLUDE PAYMENT IN FULL
VISA, MASTERCARD, DISCOVER
MONEY ORDER, OR PERSONAL CHECK

Pin Straightener



Tube Pin Straightener for Mini 9 pin tubes. Stainless steel straightening area for years of use. 2 mounting holes 1 5/8" center to center. Unused, #STR-9, \$5.95

Hydrophone



U S Navy NT-51038 Hydrophone, unused in wood box. Frequency range 1 - 20000 hz with eight Rochelle Salt Crystal doublets, each about 3 x 2 x 1 inch. Matching transformer for 25 ohm output. Rubber casing with castor oil immersed crystals approx 56 inches by 2.5 inches in diameter. The castor oil is used to couple the crystals to the water. Nine foot cable with two steel strain wires and two signal wires. A great experimenter item with a potential for listening to fish ???, boats, ships etc. Unused old stock in wood box. 29 lbs sh. #NT-51038, \$75.00

Variable Transformer



Variable Transformer by Staco
9.5 Amps 0-240/280V, Input
240V. Enclosed with knob.
8.3x6x5.9, 23 lbs sh. Used
checked, #1520CT, \$90.00

Sterilizer

M-49 EasyClave Sterilizer.
Displays messages and uses
audible "beeps" to indicate the
status of a cycle. Also displays
error messages and uses audi-
ble "beeps" to indicate malfunc-
tions. Automatically initializes
the on-board computer and runs a self-diagnostic
test when the unit is plugged in. Preheats the
chamber of the sterilizer for 90 minutes after each
sterilization cycle to allow for "quick start" cycles.
20.7x15x15.6, 84 lbs sh. #M-49, Used, \$1595.00



60Hz - 400Hz Converter

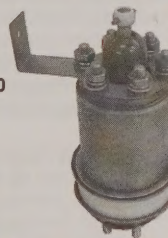


Static Frequency
Converter, Input 120V
60Hz to 117V 400Hz 500
watts single phase.
Overload protection.
With maintenance manu-
al, power input cable and
connector for output. 21x12x15, 120 lbs sh.
Unused, #CV-2488, \$499.00

Vacuum Capacitors

Ceramic Vacuum Variable Capacitors. Each capac-
itor has a 3/8" dia. shaft with
removable pin. Used.

1000pf at 15KV, 4 5/8"D x 9"H,
11 lbs sh. #CVDD-1000-15, \$295.00
500pf at 15KV, 3 5/8"D x 8 1/2"H,
7 lbs sh. #CVDD-500-15, \$275.00
300pf at 10KV, 3 5/8"D x 8 1/2"H,
7 lbs sh. #CVDD-300-10, \$245.00
200pf at 10KV, 3 5/8"D x 8 1/2"H,
7 lbs sh. #CVDD-200-10, \$245.00



Infrared Thermometer



INFRARED THERMOMETER. One-
handed operation. Laser technology.
Range 0 to 788F. Resolution 1F / 1C.
Spectral response 6-14µm. Response
time 500ms. Accuracy -20C to +100C
± 3C; +101C to +420C ± 3C.
Operating temperature 0 to +50C.
Power consumption 40mA max.
Requires a 9V-battery (not included)
1.7" x 1.6" x 6.7". 2 lbs sh.
#DVM8869, New, \$179.00

Flash Bulb

Giant Mazda Type 75 magnesium foil
flash bulb. Medium screw base. Used
in WW2 for aerial night photography.

#FLASH-W, Unused with poor wrap-
per, \$75.00

#FLASH-NW, Unused no wrapper, \$60

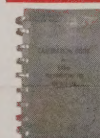


Late Arrivals !!!

T-195 Transmitter with original meters and mount-
ing. #T-195-UN, Unused, \$500.00

BC-1335/SCR-619 Radio, Used, #BC-1335, \$175.00

ART-13 Cal. Book



ART-13 Calibration book as origi-
nally stored under the front of the
ART-13. Used good condition.
AN/ART-13, #BK-CAL13, \$28.00
AN/ART-13A, #BK-CAL13A, \$29.00
ATC, #BK-ATC, \$30.00

RF Thermocouple

RF Thermocouple ARC-
7499 as used in RE-
2/BC442 ARC-5 antenna
relay. Bridge type 19.5 +/-
1.5 mv 750 ma. Use for
replacement on experi-
ments. #ARC-7499, Unused, \$5.00 each; 3/\$10.00.



H-251 Deep Discount



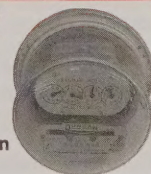
VRC-12 Headset w/ vinyl cushions, 24"
coil cord and U-182 plug; black color.
Special price until March31, 2004!

#H-251-U, Used \$8.00

#H-251-UN, Unused \$12.00

KW Hour Meters

KiloWattHour meters 240 volt 60 Hz
single phase 4 dial. Monitor power
to your out buildings or camp-
ground. Removed from use, good
condition. An interesting item to
build into a lamp base. You could
probably modify it to make in run on
the lamp current. 8 lbs sh. Used.



Westinghouse Rr 138 8/9 240 v 60 hz 3 wire 30
amps 7.2 kh. #2P2G6, \$30.00

Duncan Form 2S, Rr 138 8/9, 240 v TA 30, Kh 7.2
3W. #200CL-MS, \$29.00

Duncan MQ-S Form 2S Rr 83 1/3 240 v 60 hz 3W TA
30 12 kh. #200CL-MQ-S, \$28.00

VISIT OUR WEBSITE AT fairradio.com FOR THE LATEST FEATURE ITEMS

Knobs



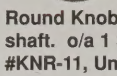
Volume control round knob for BC-348. o/a 1 1/4" diameter. #KN348-1, Unused, \$5.00



Fine tuning round knob for BC-312/342 with break and dial. Fits 3/8" diameter shaft. o/a 1 1/4" diameter. #KN312-1, Unused, \$10.



Antenna alignment round knob for BC-312/342. Fits 1/4" diameter shaft. o/a 1" diameter. #KN312-2, Unused, \$5.00



Round Knob. Fits 1/4" diameter shaft. o/a 1 3/8" diameter. #KNR-11, Unused, \$1.00



Large Bar Style Knob with pointer. Fits 1/4" diameter shaft. 2 1/4" L x 1 1/4" W x 5/8" H. #KNB-2, Used, \$3.00

Control round knob for BC-312/342. Fits 1/4" diameter shaft. o/a 1 1/8" diameter. #KN312-3, Unused, \$4.00



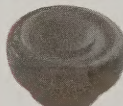
Control round knob for BC-312/342. Fits 3/16" diameter shaft. o/a 7/8" diameter. #KN312-4, Unused, \$5.00

Control round knob for RBA/RBB/RBC with pointer. Fits 1/4" diameter shaft. o/a 1 1/16" diameter. #KNRBA-1, Used, \$5.00



Control round knob for RBA/RBB/RBC with pointer. Fits 1/4" diameter shaft. o/a 13/16" diameter. #KNRBA-2, Used, \$4.00

Medium bar knob for various GRC radios. Top screw mount. o/a 1 3/8" L x 7/8" W x 3/8" H. #KNGRC-1, Used, \$3.00



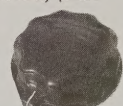
Volume control round knob for various Hallicrafters radios. Fits 1/4" diameter shaft. o/a 1 1/8" diameter. #KNHAL-1, Used, \$3.00

Round knob with spin crank. Does not accept shaft. Mount to top of another knob. 3 mounting holes on top. O/a 1 3/4" diameter. #KNSP-1, Unused, \$2.00



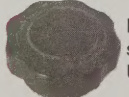
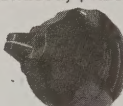
Lever knob. Fits 1/4" dia. shaft. Ideal for use with model train transformer. o/a 2 1/2" L x 11/16" W x 1/2" H. #KNL-4, Unused, \$2.00

Fluted Knob with skirt. Fits 3/8" diameter shaft. o/a 2 5/8" Diameter. #KNF-2, Unused, \$4.00



Fluted Knob with skirt. Fits 1/4" diameter shaft. o/a 1 1/2" Diameter. #KNF-3, Unused, \$1.25

Fluted Knob with pointer. Fits 3/8" diameter shaft. o/a 2 3/8" Diameter. #KNF-4, Unused, \$4.50



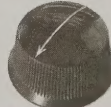
Fluted Knob. Fits 1/4" diameter shaft. o/a 1 5/8" diameter. #KNF-5, Used, \$1.25

Round Knob with skirt. Fits 1/4" diameter shaft. o/a 1 7/8" diameter. #KNR-7, Used, \$1.00



Round Knob with skirt. Fits 1/4" diameter shaft. o/a 1 1/2" diameter. #KNR-8, Used, \$1.00

Round Knob. Fits 1/4" diameter shaft. o/a 1 1/2" diameter. #KNR-9, Unused, \$1.50



Round Knob. Fits 1/4" diameter shaft. o/a 1 3/4" diameter. #KNR-10, Unused, \$1.50



Bar Style Knob. Fits 1/4" diameter shaft. 2 3/8" L x 1 1/2" W x 1 5/8" H. #KNB-3, \$1.00



Art Deco Bar Style Knob with pointer. White color. Fits 1/4" diameter shaft. 2 3/16" L x 3/4" W x 5/8" H. Unused, #KNB-4, \$2.

Singars Knob. Fits 1/8" diameter shaft. o/a 13/16" diameter. OD green. Unused, #KNSN-1, \$1.00; 7 for \$5.00



Singars Knob. Fits 1/8" diameter shaft. o/a 9/16" diameter. OD green. Unused, #KNSN-2, \$1.00; 7 for \$5.00



Round Knob with skirt. Fits 1/4" diameter shaft. o/a 2 3/8" diameter. #KNR-12, Used, \$1.75

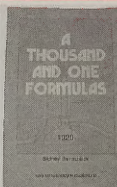


Dark Brown Round Knob. Fits 1/4" diameter shaft. o/a 1 5/8" diameter. #KNR-13, Unused, \$3.00

Trimmer Capacitors

TRIM CAPACITOR. Screwdriver adjust. These dielectric film trimmers are used on PCBs, e.g. in radios. Suitable for industrial equipment thanks to their good stability. Rated for 250 volts. New, \$0.99 each.

Pico Farad	Diameter	Temp. Max.	Part #
3.3-33	0.30"	158F max.	#TRIM30P
5.5-40	0.39"	158F max.	#TRIM39P
5.5-65	0.39"	158F max.	#TRIM65P
5.5-80	0.39"	185F max.	#TRIM80P



A THOUSAND AND ONE FORMULAS. Back in 1920 people were hot to set up their own laboratories and invent something and become rich. Experimenter Publishing Company published books and magazines to whet their appetite. They reprinted the best information from the magazines in this book. Get formulas on cements and glues, metal-craft, photography, chemical lab hints, mechanical lab hints, electrical lab hints, and many more. Fun and interesting read. 160 pp. #BK-1001, \$9.95

IMPOVERISHED RADIO EXPERIMENTER VOLUME 4. Contains information on building a TRF regenerative receiver, a one-tube crystal converter, a versatile power supply, a slide rule dial and more. 48 pp #BK-IMP-4, \$6.95

Volume 1, #BK-IMP-1, \$5.95
Volume 2, #BK-IMP-2, \$5.95
Volume 3, #BK-IMP-3, \$6.95

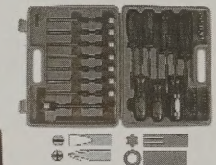
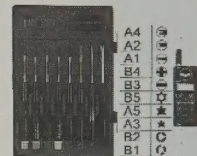


Tool Kits



41-PC TOOLSET. Head can be set at an angle of 0°, 45° or 90°. 38 bits: 14 hex sockets, 16 torx bits, 3 slotted, 3 philips and 2 S-bits. With plastic carrying case. #VTT53, New, \$6.95

UNIVERSAL CELLULAR PHONE TOOL KIT. Screwdrivers: U-shaped, curved, needle tip, 1 x philips, 1 x slotted, 3 x torx and 2 antenna removers. With colored swivel caps. #VTSET8, New, \$19.95



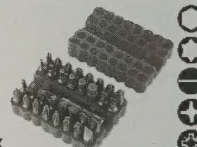
FLEXIBLE EXTENSION SHAFT 7.5". PRECISION SCREWDRIVERS - slotted: 0.08"x3.0", 0.10"x3.0", 0.12"x3.0", 0.16"x3.0". Philips: 0.10"x3.0" PH#00, 0.12"x3.0" PH#0, 0.16"x3.0" PH#1. HANDLE SCREWDRIVERS - Slotted: 0.16"x3.0", 0.20"x3.0", 0.24"x3.9", 0.31"x5.9". Philips: 0.20"x3.0" PH#1, 0.24"x3.9" PH#2. BITS: T10, T15, T20, T25, T27, T30, T40, H2, H3, H4, H5, H5.5, H6. 1/4" SOCKETS: 0.20", 0.24", 0.28", 0.31", 0.35" + 1/4" socket holder. BIT HOLDER: 2.8". #VTSET19, New, \$9.99

TOOL SET / 5PCS DIFFERENT PLIERS. Stainless-steel precision pliers set (5 pcs) : diagonal cutter, top cutter, bent nose pliers, flat nose pliers, long nose pliers. #VTSET, New, \$9.99



SECURITY BIT SET / 33 PCS. Contents - Torx: #T8, T10, T15, T20, T25, T27, T30, T35, T40. Hex: #5/64", 3/32", 7/64", 1/8", 9/64", 5/32". Hex: #2, 2.5, 3, 4, 5, 6. Tri-wing: #1, 2, 3, 4. Fork: #4, 6, 8, 10. Four-wing: #6, 8, 10. Magnetic bit holder: 1/4" hex. #VTBT5, New, \$9.99

BIT SET / 33 PCS. Contents - Hex: #2, 2.5, 3, 4, 5, 6. Torx: #T10, T15, T20, T25, T30, T40. Slotted: 3, 4, 5, 6, 7. Philips: 1 x PH0, 2 x PH1, 3 x PH2, 2 x PH3. Pozzi: 2 x PZ1, 3 x PZ2, 2 x PZ3. Magnetic bit holder: 1/4" hex. #VTBT6, New, \$4.99

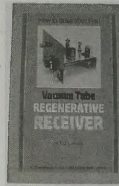


Books



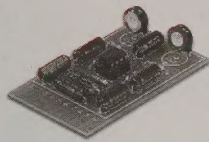
SIMPLE SCIENTIFIC EXPERIMENTS. Describes 46 instructive experiments in electricity, magnetism, hydraulics, hydrostatics, light and acoustics. From a century ago. Build a model hydraulic ram, acoustic fountain, flour explosive, manufacture of gas, static electric motor, cheap x-ray tube, electromagnetic gun, pea suspended in air, HF currents, decomposition of steam with induction coil, fiery or flaming vortex ring, thermo-electric currents and more. Simple, fun experiments. 69 pp. #BK-SIMP, \$8.95

VACUUM TUBE REGENERATIVE RECEIVER. Build your first regenerative receiver. You'll see where the parts come from, how they're chosen, and how they're made to work together. This will be a real working receiver that was built from salvaged material on hand. Tube regen receiver are easy-to-build and very low-cost. 128 pp. Includes directions and schematics. #BK-REGEN, \$9.95



Velleman Electronic Kits

Kits require insertion and soldering of components! Pictures are shown after assembly.



UNIVERSAL STEREO PRE-AMPLIFIER. Frequency range 40Hz - 30kHz (-3dB). Maximum input voltage 50mVrms. Adjustable gain 40dB max. Output impedance 1Kohm. Requires 10-

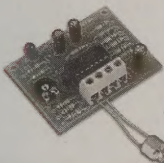
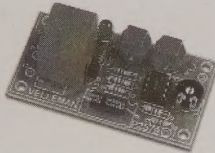
30V DC / 5mA. PCB dimensions 1.7" x 2.6".

#K2572, \$17.99

Recommended Power Supply Kit, #K1823, \$12.99

UNIVERSAL START/STOP TIMER. Miniature timer for all applications requiring a delay of up to 60 minutes. The control range may be adjusted. Requires 15V DC

/ 55mA. Relay 3A / 220V switchable time interval (without modifications): adjustable from 0 to 15 minutes. PCB dimensions 1.5" x 2.7". #K2579, \$14.99



FROST INDICATOR. Drive more safely in freezing weather. This kit uses a flashing LED to indicate a road temperature close to freezing point; below that point the LED is on continuously. A reliable temperature sensor with mounting stud is included.

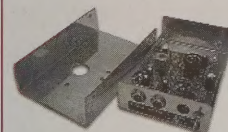
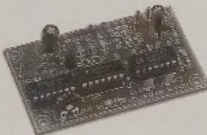
Requires 10 - 15V DC / 25mA. PCB dimensions 2.2" x 1.7". #K2644, \$14.99

Recommended housing, #G404, \$2.34

PINK NOISE GENERATOR.

A pink noise generator and a spectrum analyzer are used to analyze the acoustic properties of a room. A microphone with a linear frequency response is used to pick up the pink noise. The result will be the frequency response of the room. An equalizer will allow you to check and correct the response of the room. Easily adapted to produce "white noise". This pink noise kit produces a pseudo random digital noise with a clock frequency adjustable between 30 and 100kHz. Regulator sliding length: 33 bit. Pink noise filter: 3dB/octave (20Hz to 20kHz). Output 150mVrms into 1000 ohms. Requires 9 - 12V AC or 12 - 15V DC / 5mA. #K4301, \$15.95,

Recommended housing, #G410, \$4.46



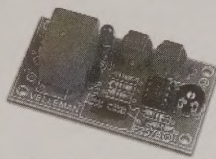
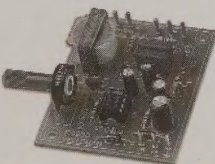
AUDIO/VIDEO TV MODULATOR. The audio and video signal are converted into a UHF TV signal that can be received by the TV within a 96 ft range. The kit includes

housing and antenna connector. UHF channel 21 (450 - 500MHz adjustable). Requires 12 to 15V DC / 100mA. 2.8" x 4.1" x 1.2". #K4601, \$39.95

TELEPHONE AMPLIFIER.

This telephone amplifier may be used as a free-standing amplifier with speaker, e.g. to listen to a telephone conversation, or the output may be connected to an amplifier or mixing panel (e.g. radio stations). Input - isolation transformer interface. Speaker output 0.5W / 8ohm. Line output 0dB (0.775Vrms). Requires 7 - 9V AC or 9 - 12V DC / 150mA. PCB dimensions: 2.5" x 2.1". #K4900, \$14.95

Recommended housing, #G416, \$6.26



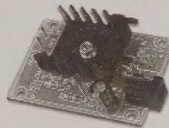
VOLTAGE DETECTOR this device locates house wiring within walls and traces wire to find a break. A flashing LED indicates when voltage is present. The flashing speed indicates how close

the wire is, approx 3.9 inches maximum. For audio indication you can add buzzer SV4/12-S. 9V battery (not included). 2.2" x 2.5". #K7101, \$12.95

Recommended housing, #G407, \$4.42

METAL DETECTOR can detect wiring, pipes, or metal parts within a wall to a depth of about 3.15 inches. A LED indicates detection of metal. For audio indication, buzzer type SV4/12-S may be connected. 9V battery (not included). Size 2.2" x 2.5". #K7102RS, \$13.00

Recommended housing, #G407, \$4.42

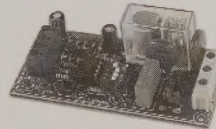


LOW COST UNIVERSAL BATTERY CHARGER. Charges NiCd or NiMH batteries. Ideal for car use. Transforms a mains adapter in to a charger (adapter socket included).

Charge cellular phone, toys, portables, video batteries, ... Selectable charge current 50mA, 100mA, 200mA, 300mA, 400mA. LED charge indication. Supply voltage from 6.5V to 21V (depending on used battery). Supply current is same as charge current. Power supply polarity protected. LED function indication. 1.6" x 2.4". #K7302, \$11.95

Recommended housing, #G403, \$2.28

DC TO PULSE WIDTH MODULATOR for control for DC motors, lighting, small heaters. Pulse width modulation (PWM) produces a series of pulses whose duration is proportional to a DC voltage. This allows for very efficient control of DC motors and other DC operated devices. Overload and short circuit protected. Input voltage 8 - 35 VDC output current 6.5A. Dimensions: 3.4"x1.9"x1.8". #K8004, \$22.95



MULTIFUNCTION RELAY SWITCH. 15 functions including timers, switching, flashing, interval, random switching, ... Two pre-programmed delays. Learning

mode for delays of 2s up to 12 days. Pushbutton control. EEPROM for delay time storage in case of power failure. On-board transient filter for the relay contacts. Suitable for control of incandescent lighting, halogen lighting, fluorescent lighting, fans, valves, buzzers, ... Requires 9-12VAC or 12VDC. Max. load : 2.5A (275W / 110V). Size: 3.4" x 1.5" x 1.0". #K8015, \$22.50

Recommended housing, #G410, \$4.46

10-CHANNEL, 2-WIRE REMOTE CONTROL.

Control 10 devices using only 2 wires up to 55 yards apart. Microprocessor controlled. Inputs can be push-buttons, switches or open collector outputs. The receiver section provides 10 open collector outputs that control relays directly. Terminal block connectors for all input and output connections. All outputs are provided with LED indication. Can be used with: K6711, K8000RS, K8006, or relay cards: K6714, K6714-16. 10 open collector outputs : 50V / 100mA. Requires single 12-15V AC or DC, 300mA. Dimensions: control pcb : 2.7" x 2.0" x 0.6"; receiver pcb: 4.0" x 2.0" x 1.0". #K8023, \$39.95



SIREN SOUND GENERATOR.

Generates 4 different sounds: police siren, fire brigade, emergency vehicle and laser gun. RV1 adjusts sound pitch. On/off switch and PCB speaker included. Requires 9V battery (not included). 2.4" x 1.6". #MK113, \$12.95

POCKET VU METER. 5 red LEDs. Incorporated microphone. Adjustable sensitivity. Requires 3V type CR2032 battery (not included). #MK115, \$8.95



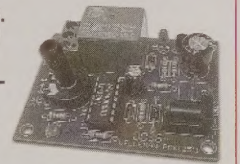
IR LIGHT BARRIER.

Applications: announce visitors, warn against burglars, set boundaries, for science projects, ... Audible (85dB) and visible (LED) alert. Range 3.3ft to 13ft.

On/off switch provided. Requires - Transmitter: 9V DC / 50mA max; Receiver: 9V DC / 20mA max. 9V battery holder and adapter jack included. Transmitter: 2.2" x 1.6". Receiver : 3.9" x 2.0". Not for outdoor use. #MK120, \$12.95

LIGHT SENSITIVE SWITCH.

Switch-on at dusk, turn off at dawn, fully automatic. Wide-range adjustable sensitivity. Delay circuit avoids cycling. Relay output NO/NC 24V/5A max. Requires 12VDC. With adapter-connector. 2.6" x 2.0". #MK125, \$8.95



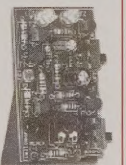
DUAL WHITE LED STROBOSCOPE.

Two super bright white LEDs. Powerful flash effect great for party's, in scale models, as attention grabber, to observe moving parts, etc... Slow/fast selector and speed adjust trimmer. Speed adjustable between approx. 1 and 60 flashes/second. On/off switch.

Requires 9V battery (not included). Power consumption 40mA max. 2.2"x1.3"x1.6". #MK147, \$10.95

DUAL SUPER BRIGHT FLASHING RED LIGHTS.

Two super bright red LEDs. Powerful flash effect for emergencies, warning signs, as eye-catcher, 'alarm-active' - simulation, etc 'Auto turn-on at dark' - mode with adjustable sensitivity. On/off switch. Requires 9V battery (not included) (12V possible). 2.2" x 1.3" x 1.6". #MK148, \$7.95



24V - 12V Converter



24VDC TO 12VDC 20 AMP CONVERTER. Compact design for in-car use. Input 24VDC. Output 12VDC. Maximum current 20 amps. Banana plugs.

Fuse protected. #PSDC20, New, \$58.95

Strobe Light

ELECTRONIC FLASHING LIGHT.

Flat lens. Requires 12VDC. Input current 85mA/1W. Flash rate 1.5Hz. Screw mounting. Suitable for indoors and outdoors. 3.9" x 3.1". New.



Amber, #HAA100A, \$18.99
Blue, #HAA100B, \$18.99
Red, #HAA100R, \$18.99
Clear, #HAA100W, \$18.99

C. Crane Radios



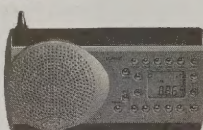
Digital Wireless FM Transmitter. Wireless transmission of ANY audio to any FM Radio! Listen to streaming audio from your computer on your kitchen radio. Send your satellite radio audio to your home stereo system.

Wireless transfer of MP3 audio to your car or home stereo system. It's easy to use. Plug the transmitter into the headphone jack or line out jack of any audio device,

set the transmitter to any FM frequency and tune any FM radio to the same frequency. Full stereo on any FM frequency. Line of sight range of around 70 feet. Clean and stable digital tuning. Runs on included AC adapter or (2) optional "AA" batteries (not included). 3.1"Wx3.5"Hx1.1". 2 lbs sh. #FMT, New, \$99.95 **SPECIAL**, \$79.95

Everything you need to use your FM Transmitter in your car or truck. Kit includes: Vent Clip Mount, 12 Volt into 5 Volt Power Adapter, and Cigarette Lighter Splitter. #FMK, New, \$29.95

The Freeplay Summit is a top end radio combining unparalleled sound quality with the reliability of multiple power options: wind up generator, solar and rechargeable. Covers 4 bands: FM 88-108MHz, MW 540-1650KHz, SW 5.95-15.6MHz, and LW 146-281KHz. The radio can be powered from the sun or from the user's own energy. Just 30 seconds of winding will provide enough energy for the radio to play for up to 30 minutes. Also has a rechargeable battery pack with optional charging adapter. Has digital tuning, 30 station presets, and a LCD digital display panel with backlight. 3.1x6.7x3.5, 4 lbs sh. #FRS, New, \$99.95



The Freeplay Plus combines a Baylis Clockwork Generator with advanced radio technology, a magnetic, detachable White LED light with 6-foot reel-up cord, and a solar panel.

AM/FM and continuous coverage of 10 SW bands from 3.0 to 18.1 MHz. Features a 4 way power system: wind up generator, built-in solar panel, built-in rechargeable battery pack with the optional AC adapter, and the Freeplay Plus can store the excess power from the wind-up generator, solar, and AC in its built-in rechargeable battery pac. New, #FRP, \$129.95 **SPECIAL**, \$99.95

Megaphones

POWER MEGAPHONE 25W. Hand-held megaphone with shoulder strap. With siren/horn. On/off switch and volume control. ABS. Range 0.3-0.45 miles depending on operating conditions. Requires 8 C-batteries (not included). 9.1" x 13.4". 6 lbs sh. #M25S, New, \$99.00



MEGAPHONE 5 WATT. Megaphone with press-to-talk switch and volume control. ABS. Range 0.2 - 0.3 miles depending on operating conditions. Requires 6 AA-batteries (not included) 5.9" x 9.3", 3 lbs sh. #M5, New, \$39.95

C. Crane Antennas

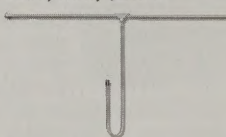


Justice AM Antenna With Twin Coil Ferrite. The biggest advancement in AM radio antenna design in over 50 years! The best compact AM antenna

for a portable radio or home stereo. It increases available daytime stations dramatically and reduces nighttime fade out by 99%! Can also eliminate heavy static and distortion. Tuner Size: 3.3" W x 4.3" H x 1.3" D. Antenna Head Size: 8.5" W x 2.5" H x 1.3" D. New, #JAA, \$99.95

If your radio isn't near a window, or you find that AM radio reception is better outside than inside, a Justice AM Antenna Remote Kit might solve the problem. When using the Remote Kit, you can set the Antenna Element closer to a window or even outside, away from the noise and interference. You'll dramatically improve reception on weak AM stations in brick, stucco or metal-sided homes, and virtually eliminate static. 25' remote installation kit. #J25, New, \$19.95 50' remote installation kit. #J50, New, \$29.95

The FM Reflect is an affordable FM antenna that is equal to or better than the best indoor antenna made. Great signal to noise ratio. Works with any portable or stereo receiver. Incorporates a new dipole design for maximum gain across the FM band. Up to 213% more powerful than a standard dipole antenna. Comes with "F" connector, balun spade connector and alligator clip. Size: 54" element with an 8' feed line. 2 lbs sh. #FMW, New, \$24.95



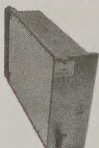
Aluminum Boxes

Cast aluminum boxes for those RF and other projects where an inexpensive sturdy box is needed. Boxes have various late 1970's transistors and components and circuit boards. Used.



Cast aluminum box. 7.5 x 2.625 x 7.5 has sheet aluminum side panels and male DB9 connector. 2 lbs sh. #BOX68429, \$5.00

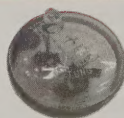
Similar to above but has 5 internal compartments separated by cast walls. Four sections each 13/16 x 4 1/8 x 1 1/16 and one section 2 13/16 x 2 3/16 x 1 5/16. 2 lbs sh. #BOX295C, \$6.00



Cast aluminium box approx 3 5/8 x 11 1/8 x 1 1/2 inside dimensions. Each has a cast top cover which have various components and circuit board with late 1970's WE transistors. 5 lbs sh. #BOX3111, \$8.00



Weird Tube



Weird Spaceship tube, WE703 early high frequency tube as used in the APR-4 Radio and others. Some have been using this for audio because of its interesting shape. Unused, #TUBE703A, \$7.50

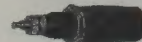
Binding Posts



DUAL BINDING POST RED/BLACK. For standard banana plugs. Distance between connectors is 0.79". Drill hole is 0.15" (x2). 1.5" x 1.3". #CM14R, New, \$1.29; 3 for \$3.49

As above but gold plated contacts. #CM15R, \$1.99; 2 for \$3.79

BINDING POST for Banana plug. Length is 1.7". Drill hole is 0.3". Black color, New, #CM3B, 2 for \$0.99; 5 for \$1.99



BANANA PLUG SCREW CONNECTION. Solder connections. Length is 1.7". New. Black color, #CM9B, 5 for \$1.00; 10 for \$1.79 Red color, #CM9R, 5 for \$1.00; 10 for \$1.79

As above but gold plated. Black color, #CM10B, 3 for \$0.99; 7 for \$1.99 Red color, #CM10R, 3 for \$0.99; 7 for \$1.99

Audio / Video Selector

3-CHANNEL AUDIO/VIDEO SWITCHER. 3 inputs and 1 output. Has 3 RCA jacks for each input and 3 RCA jacks for the output. Slide switch. 6.3" x 2.6" x 1.2", 2 lbs sh. #AVW089, New, \$5.95



NTE Heat Shrink

4 Foot NTE Heat Shrink Tubing. Shrink Temperature: 120C. Shrink Ratio - 2:1. Example - 1/16" shrinks to 1/32". Comes in four colors: Black - "BK"; Clear - "CL"; Blue - "BL"; Red - "R". New.



1/16", #47-20148-(Specify Color), \$0.87 1/8", #47-20348-(Specify Color), \$0.91 1/4", #47-20548-(Specify Color), \$1.30 3/8", #47-20748-(Specify Color), \$1.56 1/2", #47-20848-(Specify Color), \$2.02

Antenna Wire

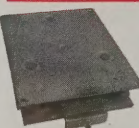
W-128 Single conductor antenna wire as used on many radio sets from WW2 thru the 1970's. Removed from installation kits, good condition.



#W-128-5, 5 feet, \$8.00
#W-128-9, 9 feet, \$12.00

Shockmounts

Robinson Aviation shock mount 848-2. Looks like its good for about 5 pounds. For base 5.5 x 7.5 inches with screw clamp on front. 2 lbs sh. #848-2, Used, \$10.00



FT-99 shock mount for BC229/429 receiver. Also fits RU-16. 2 lbs sh. #FT99, Unused, \$10.00



Triad Transformer



TY-84 Triad Utrad mobile power supply transformer. Designed for use with 12 volt DC transistor 2500 hz oscillator to produce 600 volts DC 200 Ma. With schematic. 2 lbs sh. #TY-84, Unused, \$65.00

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